



Fast, easy and
efficient
collection.

Powel ELIN

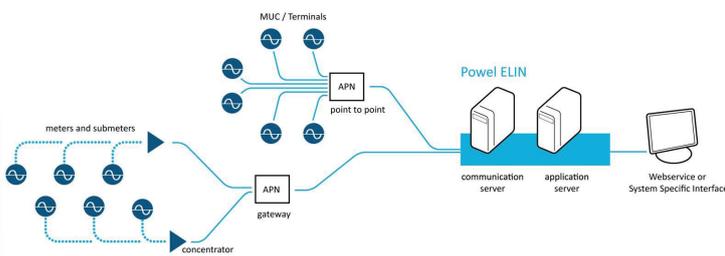
Powel ELIN is an interoperable head-end meter data collection system that supports a wide range of meter types, terminals and concentrators. A front-end processor promotes efficient communication to most common communication technologies and makes data collection from any smart meter device fast, easy, and efficient. Powel ELIN is designed for large-scale residential smart metering as well as for serving the more complex requirements of the C&I market. Powel ELIN is used in large-scale projects in the residential Swedish AMR market.

Open and interoperable head-end

Powel ELIN automatically collects meter data from virtually any utility meter or sub-meter using open and proprietary protocols from more than 30 different meters and concentrators. The solution supports multi-vendor and multi-communication metering networks and is highly scalable. This level of vendor independence, interoperability and open interfaces makes Powel ELIN a safe investment for smart metering and future smart grid functionality. Powel solutions are tested to work in networks that include more than two million meters.

Manage your heterogeneous metering networks

Adapter modules for electricity, heat, gas and water within Powel ELIN accommodate a wide variety of protocols available industry-wide, enabling utilities to operate and manage their heterogeneous metering networks with a single system. Powel ELIN is able to manage consumption data in addition to smart meter functions like outages, tamper alarms, sensor logs, voltage quality and more. Data is collected and events trigger appropriate actions based on business rules and filters in the system. Data collection is optimised using flexible scheduling tools that allow you to pre-configure parameters including frequency, re-reading, and alarm monitoring. Schedules can be customised for individual communication points or groups of meters and communication points. On-demand reading and disconnect functions for addressed meters help to improve customer service and optimise resource allocations.



Simplify meter administration

Meter upgrades and new configurations can easily be managed remotely using Powel ELIN remote downloading functionality. Meter equipment monitoring and centralised controls ensure that administration of the head-end system is simple, secure, and efficient.

Support rollout processes

Through its flexible and configurable architecture, Powel ELIN supports a multitude of installation and roll-out scenarios. Devices can be installed through tight web-service integrations with legacy systems or through automatic discovery of equipment available in the network, or through a combination of these. Information regarding customers, demographics, locations, installation configurations and more can easily be accessed for rollout support.

Seamless system integration

For smooth integration in a variety of configurations, Powel ELIN uses web services to easily interface with virtually any third-party meter data management software for processing and storage - including Powel MDMS. The integration secures fast interaction between back office systems and the meter. The services include for smart meters features like on demand reading, disconnect, alarms, events and consumption data.

KEY FEATURES

- Meter installation support
- Scheduled data collection
- On-demand read
- Validation and estimation
- Calculation
- Export and import
- SOAP based web service integration
- Meter data KPI:s
- Network Management
- Connect/disconnect
- Configuration management
 - Events and alarms
 - Tariffs
 - Threshold settings
- Adapters for, among others:
 - Itron/Actaris
 - Echelon
 - CEWE/PRI
 - Kamstrup
 - Iskraemeco
 - Elster
 - Landis+Gyr

Adapting to Smart Metering

Powel ELIN uses an adapter-oriented architecture, in which one adapter represents one protocol. This architecture allows the system to communicate with a wide range of metering equipment when the right adapter is installed.

It also keeps different data formats and protocols separated, and enables the system to integrate easily with new types of meters and multi-points. The complexity and number of adapters depends on the specifications of the meters, terminals, and/or concentrators users need to implement.

New adapters can be developed quickly, due to the system's flexibility and expandable architecture. Supported communication technologies include PSTN, LAN/WAN, GSM, TCP/ IP, M-bus, radio, GPRS, PLC, and others. Infrastructures can be point-to-point, concentrator, or mesh networks. The software runs on a client/server configuration based on a communication server and an Oracle database platform. It also features a Web-based user interface. To enhance security, access rights for various users are configured based on users and user groups.

Key benefits include

- Meter vendor independent
- Proven scalability
- Easy to integrate through wide range of available web services
- Web-based interface
- Configurable adapters
- Supporting multiple communication standards